



International Parkinson and
Movement Disorder Society

PRELIMINARY PROGRAM

WWW.MDSCONGRESS2015.ORG

IMPORTANT DATES

APRIL 1, 2015
Late-Breaking Abstract Deadline

APRIL 17, 2015
Early Registration Deadline

MAY 15, 2015
Final Pre-Registration Deadline

JUNE 14-18, 2015
19th International Congress of Parkinson's
Disease and Movement Disorders

19TH INTERNATIONAL CONGRESS OF PARKINSON'S
DISEASE AND MOVEMENT DISORDERS

JUNE 14-18
2015

SAN DIEGO, CA, USA



SCAN TO LEARN MORE ON OUR WEBSITE!





Table of Contents

ABOUT MDS.....	2	DAILY SCHEDULE.....	7
Purpose, Mission And Goals.....	2	Schedule-At-A-Glance.....	7
MDS Officers (2013-2015)	3	MDS 19th International Congress Session Definitions.....	8
MDS International Executive Committee	3	Sunday, June 14, 2015	9
International Congress Oversight Committee	3	Monday, June 15, 2015.....	10
Congress Scientific Program Committee	3	Tuesday, June 16, 2015	14
Congress Local Organizing Committee.....	3	Wednesday, June 17, 2015	19
Past-Presidents.....	3	Thursday, June 18, 2015	24
International Medical Society for Motor Disturbances Past-Presidents	3	Faculty Listing	27
MDS International Secretariat	3	EDUCATION INFORMATION.....	31
INTERNATIONAL CONGRESS INFORMATION	4	Outreach Education Programs	31
Dates	4	Online CME Activities.....	31
Official Language	4	Other Online Education Resources	32
Venue	4	Live Courses.....	32
Exhibition.....	4	INTERNATIONAL CONGRESS MULTIMEDIA	34
Abstract Poster Information	4	Streaming content Available for Pre-Order.....	34
Events.....	4	Streaming content Available for Online Order	34
CONGRESS EVENTS	4	ACKNOWLEDGEMENTS.....	35
Registration.....	5	MEMBERSHIP INFORMATION	36
Registration Confirmation	5	Membership Benefits	36
Cancellation/Refund Policy.....	5	HOUSING	37
Group Registration	5	Individual Reservations	37
Registration Desk	5	Group Reservations	37
Scientific Sessions.....	5	MAP OF DOWNTOWN SAN DIEGO	38
Special Accessibility Needs	5	2015 IMPORTANT DATES	39
Camera Policy.....	5	SAVE THE DATE	39
Weather	5		
CME INFORMATION	6		





Dear Colleagues,

We would like to formally invite you to San Diego, CA, USA, where blue skies line over 70 miles of picturesque coastline and beautiful weather and friendly locals create a welcoming vibe all its own. The International Parkinson and Movement Disorder Society is excited to be hosting the 19th International Congress of Parkinson's Disease and Movement Disorders in San Diego, June 14-18, 2015. Mark your calendars!

Bordered by the Pacific Ocean to the west, the Laguna Mountains to the east and Mexico to the south, the diverse neighborhoods of San Diego are spread out over 4,200 square miles, offering endless opportunities for exploration and activities. Enjoy a variety of cuisine and culture in San Diego, a vibrant metropolitan city with a laid-back, small town feel.

Please join us to share knowledge with each other and to actively participate in advancing the field of Movement Disorders all while enjoying one of the fastest growing cities in the United States.

We look forward to welcoming you to San Diego for the 19th International Congress and hope you will take part in this exceptional Scientific Program. We promise an unforgettable experience.

With kind regards,



Matthew Stern
President,
International Parkinson and
Movement Disorder Society,
2013-2015



Victor Fung
Chair,
Congress Scientific
Program Committee,
2013 - 2015



Irene Litvan
Co-Chair,
Congress Scientific
Program Committee,
2015



About MDS

The International Parkinson and Movement Disorder Society (MDS) is a professional society of clinicians, scientists, and other healthcare professionals who are interested in Parkinson's disease, related neurodegenerative and neurodevelopmental disorders, hyperkinetic movement disorders, and abnormalities in muscle tone and motor control. The spectrum of clinical disorders represented by the Society includes, but is not limited to:

Ataxia
Chorea
Dystonia
Gait disorders
Huntington's disease
Myoclonus and startle
Parkinson's disease and parkinsonism
Restless legs syndrome
Stiff person syndrome
Tardive dyskinesia
Tics and Tourette syndrome
Tremor and essential tremor

In recent years, there has been tremendous growth in new diagnostic information, pharmacological and neurosurgical treatments for Movement Disorders, as well as a greater understanding of impaired motor control function. MDS offers you and your patients an essential link to this knowledge.

In 1985, The *Movement* Disorder Society was founded on the initiative of Professors Stanley Fahn and C. David Marsden, whose leadership and vision guided the expansion of clinical expertise and research in this field. This not-for-profit organization merged in 1992 with the International Medical Society for Motor Disturbances. Publication of the journal *Movement Disorders* began in 1986, and the first International Congress was held in 1990.

In 2013, The *Movement* Disorder Society officially changed its name to the International Parkinson and Movement Disorder Society, in order to recognize the growing importance of Parkinson's disease care and research within the field of Movement Disorders.

PURPOSE, MISSION AND GOALS

Purpose:

The objective and mission of the Society shall be to advance the neurological sciences pertaining to Movement Disorders; to improve the diagnosis and treatment of patients; to operate exclusively for scientific, scholarly and educational purposes; to encourage research; to provide forums, such as medical journals, scientific symposia and International Congresses, for sharing ideas and for advancing the related clinical and scientific disciplines; to encourage interest and participation in the activities of the Society among healthcare and allied professionals and scientists; and to collaborate with other related professional and lay organizations.

Mission and Goals:

To disseminate knowledge about Movement Disorders by:

- Providing educational programs for clinicians, scientists and the general public designed to advance scientific and clinical knowledge about Movement Disorders
- Sponsoring International Congresses and Symposia on Movement Disorders
- Collaborating with other international organizations and lay groups
- Publishing journals, video and other collateral materials committed to high scientific standards and peer review

To promote research into causes, prevention and treatment of Movement Disorders by:

- Using the Society's influence and resources to enhance support for research
- Facilitating the dissemination of information about research
- Encouraging the training of basic and clinical scientists in Movement Disorders and related disorders

For the purposes of favorably affecting the care of patients with Movement Disorders, the Society will provide expertise, advice and guidance to:

- Regulatory agencies to assist them in the approval process of safe and effective therapeutic interventions
- The public (media) and patient support groups by informing them of new research and therapeutic advances
- Governments to assist them in the development of policies that affect support of research and patient care
- Educational efforts to assist in developing standards of training in the specialty

About MDS

MDS OFFICERS (2013-2015)



President

Matthew Stern,
USA



President-Elect

Oscar Gershanik,
Argentina



Secretary

Francisco Cardoso,
Brazil



Secretary-Elect

Claudia Trenkwalder,
Germany



Treasurer

Christopher Goetz,
USA



Treasurer-Elect

David John Burn,
United Kingdom



Past-President

Günther Deuschl,
Germany

MDS INTERNATIONAL EXECUTIVE COMMITTEE

Paolo Barone, *Italy*
Bastiaan Bloem, *Netherlands*
Murat Emre, *Turkey*
Susan Fox, *Canada*
Victor Fung, *Australia*
Etienne Hirsch, *France*
Beom Jeon, *Korea*
Michael Okun, *USA*
Anthony Schapira, *United Kingdom*
Mark Stacy, *USA*

INTERNATIONAL CONGRESS OVERSIGHT COMMITTEE

Chair: Philip Thompson, *Australia*
Günther Deuschl, *Germany*
Victor Fung, *Australia*
Oscar Gershanik, *Argentina*
Christopher Goetz, *USA*
Anthony Lang, *Canada*
Irene Litvan, *USA*
Matthew Stern, *USA*

CONGRESS SCIENTIFIC PROGRAM COMMITTEE

Chair: Victor Fung, *Australia*
Co-Chair: Irene Litvan, *USA*
Tim Anderson, *New Zealand*
Daniela Berg, *Germany*
Erwan Bezard, *France*
K. Ray Chaudhuri, *United Kingdom*
Carlo Colosimo, *Italy*
Marina de Koning-Tijssen, *Netherlands*

Günther Deuschl, *Germany*
Joaquim Ferreira, *Portugal*
Oscar Gershanik, *Argentina*
Glenda Halliday, *Australia*
Hyder Jinnah, *USA*
Paul Krack, *France*
Olle Lindvall, *Sweden*
Timothy Lynch, *Ireland*
José Obeso, *Spain*
Per Odin, *Sweden*
Lynn Rochester, *United Kingdom*
Robert Rodnitzky, *USA*
Raymond Rosales, *Philippines*
Klaus Seppi, *Austria*
Matthew Stern, *USA*
Antonio Strafella, *Canada*
D. James Surmeier, *USA*
Ryosuke Takahashi, *Japan*
Eng-King Tan, *Singapore*
Philip Thompson, *Australia*
Claudia Trenkwalder, *Germany*

CONGRESS LOCAL ORGANIZING COMMITTEE

Chair: Irene Litvan
David Barba
Jennifer Friedman
Stephanie Lessig
Stuart Lipton
Fatta Nahab
Howard Poizner
Dee Silver
Mark Tuszynski

PAST-PRESIDENTS

2011-2013 Günther Deuschl, *Germany*
2009-2011 Philip Thompson, *Australia*
2007-2009 Anthony Lang, *Canada*
2005-2006 Andrew Lees, *United Kingdom*
2003-2004 C. Warren Olanow, *USA*
2001-2002 Werner Poewe, *Austria*
1999-2000 Mark Hallett, *USA*
1997-1998 Eduardo Tolosa, *Spain*
1995-1996 Joseph Jankovic, *USA*
1991-1994 C. David Marsden, *United Kingdom*
1988-1991 Stanley Fahn, *USA*

INTERNATIONAL MEDICAL SOCIETY FOR MOTOR DISTURBANCES PAST-PRESIDENTS

1993-1994 C. Warren Olanow, *USA*
1991-1992 Bastian Conrad, *Germany*
1989-1990 Mark Hallett, *USA*
1987-1988 Mario Manfredi, *Italy*
1985-1986 C. David Marsden, *United Kingdom*

MDS INTERNATIONAL SECRETARIAT

International Parkinson and
Movement Disorder Society
555 East Wells Street, Suite 1100
Milwaukee, WI 53202-3823 USA
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E-mail: info@movementdisorders.org
Website: www.movementdisorders.org



International Parkinson and
Movement Disorder Society

International Congress Information

DATES

Sunday, June 14 through Thursday, June 18, 2015

OFFICIAL LANGUAGE

The official language of the International Congress is English.

VENUE

Manchester Grand Hyatt San Diego
One Market Place
San Diego, CA 92101
USA

EXHIBITION

Manufacturers, distributors and suppliers of products and services for physicians and researchers involved with Movement Disorders are invited to participate in the International Congress exhibition.

To receive a copy of the Exhibitor Prospectus, please contact the MDS International Secretariat at congress@movementdisorders.org or visit the International Congress section of the MDS website at www.mdscongress2015.org/Congress-2015/SupportExhibit.htm. The exhibition is open to all registered delegates.

ABSTRACT POSTER INFORMATION

Poster Sessions will be featured Monday through Thursday during the International Congress to ensure delegates are given the opportunity to review as many abstracts as possible. Please visit www.mdscongress2015.org/Congress-2015/Abstracts.htm for a detailed poster schedule, including information about the Guided Poster Tours.

EVENTS

For more information about the events for the 19th International Congress, please see below.

International Congress Events

SUNDAY, JUNE 14, 2015

Welcome Ceremony

19:30 – 21:30

All International Congress attendees are warmly invited to attend the International Congress Welcome Ceremony at the Manchester Grand Hyatt. This event is open to all registered delegates.

WEDNESDAY, JUNE 17, 2015

MDS Video Challenge

19:00 – 22:00

Please join Masters of Ceremony Anthony Lang and Kapil Sethi as they host a world-renowned panel of Movement Disorders experts in guiding participants through unique Movement Disorder cases. The cases will be presented by representatives from Movement Disorder Centers around the world and discussed by the Panel of Experts. Awards will be given for the most interesting and challenging cases. Country pride will add an enjoyable spirit of competition to this event. The goal of this session is for attendees to learn from a series of unusual, very interesting patients and see how senior experts approach these types of challenging cases.

The Panel of Experts are:

Susan Fox, *Toronto, ON, Canada*

Shen-Yang Lim, *Kuala Lumpur, Malaysia*

Timothy Lynch, *Dublin, Ireland*

Susanne Schneider, *Kiel, Germany*

Maria Stamelou, *Athens, Greece*

This event is open to all registered delegates. For more information about the MDS Video Challenge, please contact Sarah Smith at ssmith@movementdisorders.org.

International Congress Information

REGISTRATION

Visit www.mdscongress2015.org/Congress-2015/Registration.htm to register online.

Fees (in USD):

	On or before April 17, 2015	From April 18 – May 15, 2015	From May 16 – June 18, 2015
MDS Member	\$600	\$650	\$700
Non-member	\$800	\$850	\$900
Junior Member/ Participant*	\$350	\$375	\$400
Health Professional (Non-Physician)	\$350	\$375	\$400

The International Congress registration fee includes admission to all scientific sessions, Exhibit Hall and Poster Hall and a meeting bag and documentation. The registration fee **excludes** hotel accommodations.

*Junior Members of MDS, those born after January 1, 1985, residents, fellows and those still in training. Please fax or e-mail a copy of an official document indicating age or a letter from your employer stating training status to be eligible for this discount. Without documentation, the delegate will be charged the non-member rate (Fax: +1 514-380-5378 or e-mail: mdscongress@showcare.com within one week of submitting registration).

REGISTRATION CONFIRMATION

Attendees who register online will receive a confirmation message immediately. Please present this confirmation at the International Congress registration desk in San Diego in order to receive your registration materials.

CANCELLATION/REFUND POLICY

All cancellations must be requested in writing.

Up to May 15 (final pre-registration deadline): 100% refund, minus a \$75 administrative charge

From May 16 – June 5: 50% refund

From June 6 onwards: no refund

GROUP REGISTRATION

Companies registering groups of six or more individuals should contact the MDS Registration Bureau by completing a group registration form online: www.mdscongress2015.org/Congress-2015/Registration/Group-Registration.htm. A username and password will be sent within a day or two to allow companies to manage their own groups.

REGISTRATION DESK

Name badges, scientific session tickets and International Congress bags can be collected at the International Congress Registration Desk to be located in the Palm Foyer on the Second Level during the following hours**:

Saturday, June 13	16:00 – 20:00
Sunday, June 14	7:00 – 20:00
Monday, June 15	7:00 – 18:00
Tuesday, June 16	7:00 – 18:00
Wednesday, June 17	7:00 – 18:00
Thursday, June 18	7:00 – 16:00

**Please note that these hours are subject to change. Please watch for updated schedules at www.mdscongress2015.org/Congress-2015.htm and look for the schedule in the Final Program.

SCIENTIFIC SESSIONS

The 2015 Scientific Program will incorporate Therapeutic Plenary Sessions, Plenary and Parallel Sessions, Teaching Courses, Video Sessions, Skills Workshops, Guided Poster Tours and Blue Ribbon Highlights.

Sessions will focus on the latest developments in:

- Multi-system proteinopathies
- Movement Disorder topics, including, but not limited to, ataxia, chorea, dystonia, myoclonus, Parkinson's disease, restless legs syndrome, spasticity, stereotypies, tics and tremors
- Basic Science issues, including, but not limited to, genetics, neuroimaging, neuropharmacology, surgical therapy and transplantation
- Other less common clinical conditions

SPECIAL ACCESSIBILITY NEEDS

Delegates requiring special arrangements in order to fully participate in the International Congress should provide a written description of such needs on their registration form or send an e-mail to congress@movementdisorders.org. To ensure appropriate accommodations, all special needs should be addressed in advance with the MDS International Secretariat.

CAMERA POLICY

Cameras are not permitted in any of the 19th International Congress educational sessions or in the poster areas.

WEATHER

The average daytime temperature in San Diego in June is approximately 67° F (19° C).



CME Information

PURPOSE

The purpose of the MDS International Congress is to offer a forum for clinical and basic discussion on a variety of movement disorder topics, including presentations of current research and available treatments.

LEARNING OBJECTIVES

Through state-of-the-art lectures, hot topic reviews, controversy debates, teaching courses, skills workshops and video sessions, participants will be better able to:

1. Describe the pathophysiology and neurobiology of Parkinson's disease and other movement disorders;
2. Discuss the diagnostic approaches and tools available for Parkinson's disease and other movement disorders;
3. Discuss the pharmacological and non-pharmacological treatment options available for Parkinson's disease and other movement disorders.

CONTINUING MEDICAL EDUCATION

The International Parkinson and Movement Disorder Society is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

ACCREDITATION STATEMENT

The International Parkinson and Movement Disorder Society designates this live activity for a maximum of 35 *AMA PRA Category 1 Credits*[™]. Physicians should claim only credit commensurate with the extent of their participation in the activity.

TARGET AUDIENCE

The target audience of the 19th International Congress of Parkinson's Disease and Movement Disorders includes clinicians, researchers, post-doctoral fellows, medical residents, medical students and other healthcare professionals with an interest in the current research and approaches for the diagnosis and treatment of movement disorders.

FACULTY FINANCIAL DISCLOSURE INFORMATION

It is the policy of The International Parkinson and Movement Disorder Society (MDS) to ensure balance, independence, objectivity and scientific rigor in all sponsored educational activities. All faculty participating in any MDS sponsored activities are required to disclose to the activity audience any real or apparent conflict(s) of interest that may have a direct bearing on the subject matter of the Continuing Medical Education (CME) activity. This pertains to relationships with pharmaceutical companies, biomedical device manufacturers, or other corporations whose products or services regardless of presentation topic. The intent of this policy is not to prevent a speaker with a potential conflict of interest from making a presentation. It is merely intended that any potential conflict should be identified openly so that the listeners may form their own judgments about the presentation with the full disclosure of the facts. It remains for the audience to determine whether the speaker's outside interest may reflect a possible bias in either the exposition or the conclusions presented.

Faculty financial disclosure information will be provided to participants in San Diego.

Schedule-At-A-Glance

	Sunday, June 14, 2015	Monday, June 15, 2015	Tuesday, June 16, 2015		Wednesday, June 17, 2015	Thursday, June 18, 2015
7:00	Committee Meetings 7:00 - 8:00	Committee Meetings 7:00 - 8:00	Committee Meetings 7:00 - 8:00		Committee Meetings 7:00 - 8:00	Committee Meetings 7:00 - 8:00
7:30						
8:00	Therapeutic Plenary Session 8:00 - 10:00	Plenary Session (Presidential Lectures) 8:00 - 10:00	Plenary Session 8:00 - 10:00		Plenary Session 8:00 - 10:00	Plenary Session 8:00 - 9:30
8:30						
9:00						
9:30						Break 9:30 - 10:00
10:00	Regional Assemblies 10:00 - 11:00	Break 10:00 - 10:30	Break 10:00 - 11:00	MDS Business Meeting 10:00 - 11:00	Break 10:00 - 10:30	Controversies 10:00 - 11:00
10:30						
11:00	Therapeutic Plenary Session 11:00 - 13:00	Plenary Session 10:30 - 12:30	Plenary Session 11:00 - 12:30		Plenary Session 10:30 - 12:00	Blue Ribbon Highlights 11:00 - 12:00
11:30						
12:00		Break/Guided Poster Tours/ Poster Sessions 12:30 - 14:00	Break/Guided Poster Tours/ Poster Sessions 12:30 - 14:00		Break/Guided Poster Tours/ Poster Sessions 12:00 - 13:30	Break/Guided Poster Tours/ Poster Sessions 12:00 - 13:30
12:30						
13:00	Break 13:00 - 14:30	Corporate Therapeutic Symposia 14:00 - 15:00	Corporate Therapeutic Symposia 14:00- 15:00		Corporate Therapeutic Symposia 13:30 - 14:30	Corporate Therapeutic Symposia 13:30 - 14:30
13:30						
14:00						
14:30	Therapeutic Plenary Session 14:30 - 16:30	Break 15:00 - 15:30	Break 15:00 - 15:30		Break 14:30 - 15:00	Break 14:30 - 15:00
15:00		Parallel Sessions/ Teaching Courses 15:30 - 17:30	Parallel Sessions/ Teaching Courses 15:30 - 17:30		Parallel Sessions/ Teaching Courses 15:00 - 17:00	Parallel Sessions/ Teaching Courses 15:00 - 17:00
15:30						
16:00						
16:30	Break 16:30 - 17:00					
17:00	Therapeutic Plenary Session 17:00 - 19:00	Break 17:30 - 18:00	Break 17:30 - 18:00		Break 17:00 - 17:30	End
17:30						
18:00		Skills Workshops/ Video Sessions 18:00 - 19:30	Skills Workshops / Video Sessions 18:00 - 19:30		Skills Workshops/ Video Sessions 17:30 - 19:00	
18:30						
19:00	Break 19:00 - 19:30					
19:30	Welcome Ceremony 19:30 - 21:30		Corporate Therapeutic Symposia 20:00- 21:00		MDS Video Challenge 19:00 - 22:00	 Scan to learn more on our website!
20:00						
20:30						
21:00						
21:30						
22:00						



MDS 19th International Congress Session Definitions

Blue Ribbon Highlights

This session will provide a critical review of the best poster presentations by a panel of experts, highlighting the relevance, novelty and quality of both clinical and basic research presented by the delegates.

Controversies

This Plenary Session is designed to involve all International Congress attendees. Content is prepared to stimulate interest and debate among a panel of experts. Views from several angles will be addressed as discussion of pre-selected “hot” topics will be open for debate among the panelists.

Corporate Therapeutic Sessions

These company-based informational sessions will provide attendees with non-CME educational opportunities to learn the latest in therapeutics.

Guided Poster Tours

Guided Poster Tours will give small groups of delegates an opportunity to hear discussion on a select group of abstracts in several sub-categories.

Parallel Sessions

These concurrent sessions provide an in-depth report of the latest research findings, state-of-the-art treatment options, as well as a discussion of future strategies. Parallel sessions will have evidence-based components and incorporate the “hot” issues in Parkinson’s disease and other movement disorders.

Plenary Sessions

These sessions provide a broad overview of the latest clinical and basic science research findings and state-of-the-art information.

Poster Sessions

Poster sessions give each delegate an opportunity to view their colleagues’ posters on the most current research in the field of Movement Disorders. Authors will be present for 1.5 hours each day to explain their work and answer questions.

Skills Workshops:

These clinic-based training sessions provide an educational illustration of clinical techniques and treatment procedures through demonstrations utilizing patient video and proper equipment to further develop practitioners’ skills and knowledge within the field of treatment of movement disorders.

Teaching Courses

These educational sessions provide up-to-date information focused on a single topic. The sessions highlight both the clinical and basic science of topics of relevance to Movement Disorder specialists. The sessions are unique in providing a syllabus that includes a review of the topic and the presentation slides. In addition, these programs provide ample time for questions and a discussion period at the conclusion of the presentations.

Therapeutic Plenary Sessions

These sessions provide the latest information regarding the scientific and clinical evidence supporting treatment options for Parkinson’s disease and other movement disorders.

Video Sessions

Designed to provide a broad overview of related movement disorders, the video sessions will focus on the phenomenology covering the many different kinds of movement disorders affecting the population today.

SPECIAL MEETING THEME:

MULTI-SYSTEM PROTEINOPATHIES: FROM PARADIGM SHIFT TO THERAPY

At each annual International Congress, the Congress Scientific Program Committee selects a theme that is highlighted throughout the meeting. This year’s theme, “*Multi-system proteinopathies: From paradigm shift to therapy*” will be showcased in two Plenary Sessions, six Parallel Sessions, one Skills Workshop, one Video Session, and one Teaching Course. International experts will serve as faculty, and the meeting participants can elect to attend any or all of these sessions. Themed sessions are designated in the program with a .

Sunday, June 14, 2015

1101 Therapeutic Plenary Session

Managing Parkinson's disease: Past, present and future

8:00 – 10:00

- Chairs: Olivier Rascol
Toulouse, France
Lynn Rochester
Newcastle upon Tyne, United Kingdom
- 8:00 Treatment approach to Parkinson's disease: A 25-year historical perspective
Eldad Melamed
Tel Aviv, Israel
- 8:40 Medical and surgical treatment of Parkinson's disease
Alexander Storch
Dresden, Germany
- 9:20 Rehabilitation therapies for Parkinson's disease
Lynn Rochester
Newcastle upon Tyne, United Kingdom

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Describe the most important steps in the historical development towards the therapy of today
- 2) Discuss medical and surgical therapy for Parkinson's disease for motor symptoms; focus on present and possible future developments
- 3) Discuss rehabilitation and exercise therapy

1102 Therapeutic Plenary Session

Treatment of dystonia

11:00 - 13:00

- Chairs: Cynthia Comella
Chicago, IL, USA
Victor Fung
Sydney, NSW, Australia
- 11:00 The spectrum of isolated and combined dystonia syndromes
Victor Fung
Sydney, NSW, Australia
- 11:40 Update on medical and surgical treatment of the dystonias
Marie Vidailhet
Paris, France

1102 Therapeutic Plenary Session, cont.

- 12:20 New and emerging therapies for dystonia
Susan Fox
Toronto, ON, Canada

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Recognize the full spectrum of isolated and combined dystonia syndromes
- 2) Recognize state-of-the-art in the medical and surgical treatment of the dystonias
- 3) Recognize novel and experimental treatments for dystonia under development

1103 Therapeutic Plenary Session

Therapeutic options for mood, cognition and psychosis in Parkinson's disease

14:30 - 16:30

- Chairs: Jaime Kulisevsky
Barcelona, Spain
Daniel Weintraub
Ardmore, PA, USA
- 14:30 How to treat anxiety, depression and apathy
Daniel Weintraub
Ardmore, PA, USA
- 15:10 How to treat the Parkinson's disease patient with cognitive impairment
Jaime Kulisevsky
Barcelona, Spain
- 15:50 How to treat the Parkinson's disease patient with psychosis
Mateusz Zurowski
Toronto, ON, Canada

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Understand the issues involved in selecting the best options for treating mood disorders and apathy in Parkinson's disease
- 2) Review treatment of cognitive impairment in Parkinson's disease
- 3) Evaluate treatment of psychosis in Parkinson's disease

1104 Therapeutic Plenary Session

Update on treatment of hyperkinetic movement disorders

17:00 - 19:00

- Chairs: Alfredo Berardelli
Rome, Italy
Philip Thompson
Adelaide, SA, Australia
- 17:00 Huntington's disease: From natural history studies to experimental therapeutics
Ira Shoulson
Washington DC, USA
- 17:40 Myoclonus: Etiology, pathophysiology and treatment
Robert Chen
Toronto, ON, Canada
- 18:20 Update on Gilles de la Tourette syndrome and other tic disorders
Davide Martino
Orpington, United Kingdom

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Understand the natural history and emerging therapies for Huntington's disease
- 2) Understand the pathophysiological basis and treatment of myoclonus
- 3) Understand the pathophysiological basis and treatment of Gilles de la Tourette syndrome and other tic disorders



Monday, June 15, 2015

2101	Plenary Session
	Presidential Lectures 8:00 – 10:00
Chairs:	Matthew Stern <i>Philadelphia, PA, USA</i> Oscar Gershanik <i>Buenos Aires, Argentina</i>
8:00	Stanley Fahn Lecture Günther Deuschl <i>Kiel, Germany</i>
8:30	Junior Award Lecture: Clinical Science <i>To be announced</i>
9:00	Junior Award Lecture: Basic Science <i>To be announced</i>
9:30	C. David Marsden Lecture José Obeso <i>Madrid, Spain</i>
Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees	

2102	Plenary Session
	25 years of Movement Disorders - Movement Disorders Grand Rounds 10:30 - 12:30
	<i>In this interactive session, our expert MDS founders will examine interesting common and complex patients. During this session, you will learn how they formulate diagnoses and manage these interesting and challenging patients.</i>
Chairs:	Jennifer Friedman <i>Del Mar, CA, USA</i> Irene Litvan <i>San Diego, CA, USA</i>
MDS Experts:	Stanley Fahn <i>New York, NY, USA</i> Joseph Jankovic <i>Houston, TX, USA</i> Andrew Lees <i>London, United Kingdom</i> Eduardo Tolosa <i>Barcelona, Spain</i>
Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees	

2102	Plenary Session, cont.
	At the conclusion of this session, participants should be better able to:
	1) Understand how our founder experts use clinical history and signs to formulate their diagnosis in complex movement disorder cases
	2) Understand how our founders use paraclinical methods to diagnose complex movement disorders
	3) Understand how our founders formulate therapies for complex movement disorder patients

2203	Parallel Session
	Chronic traumatic encephalopathy and movement disorders 15:30 - 17:30
Chairs:	Andrew Lees <i>London, United Kingdom</i> Tamas Revesz <i>London, United Kingdom</i>
15:30	Movement disorders as a presentation of chronic traumatic encephalopathy Helen Ling <i>London, United Kingdom</i>
16:10	Boxing and parkinsonism Charles Bernick <i>Las Vegas, NV, USA</i>
16:50	Chronic traumatic encephalopathy: The spectrum of neuropathological changes Tamas Revesz <i>London, United Kingdom</i>
Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees	

	At the conclusion of this session, participants should be better able to:
	1) Understand movement disorders as a presentation of chronic traumatic encephalopathy
	2) Learn about the association between repetitive traumatic brain injury and Parkinson's disease
	3) Discuss the spectrum of neuropathological changes in chronic traumatic encephalopathy

2204	Parallel Session
	Designing a clinical trial for atypical parkinsonian disorders 15:30 - 17:30
Chairs:	Christopher Goetz <i>Chicago, IL, USA</i> Gregor Wenning <i>Innsbruck, Austria</i>
15:30	Outcome of clinical trials in MSA Gregor Wenning <i>Innsbruck, Austria</i>
16:10	Outcome of clinical trials in PSP and CBD Adam Boxer <i>Palo Alto, CA, USA</i>
16:50	Overcoming challenges in clinical trial design in atypical parkinsonian disorders Christopher Goetz <i>Chicago, IL, USA</i>
Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees	

	At the conclusion of this session, participants should be better able to:
	1) Understand what we have learned from prior clinical trials in MSA
	2) Understand what we have learned from prior clinical trials in progressive supranuclear palsy and other uncommon tauopathies (corticobasal degeneration)
	3) Understand the unique challenges of clinical trial design for atypical parkinsonian disorders and learn novel clinical trial paradigms to address limitations in identifying efficacious therapies

2205	Parallel Session
	What's new in essential and non-essential tremor 15:30 - 17:30
Chairs:	Mark Hallett <i>Bethesda, MD, USA</i> Hyder Jinnah <i>Atlanta, GA, USA</i>
15:30	Parkinson's disease tremor Rick Helmich <i>Nijmegen, Netherlands</i>

Monday, June 15, 2015

2205 Parallel Session , cont.

16:10 Essential tremor
Fatta Nahab
San Diego, CA, USA

16:50 Dystonic tremor
Hyder Jinnah
Atlanta, GA, USA

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Understand the most recent advances in the pathophysiology and diagnosis of Parkinson's disease tremor
- 2) Understand the most recent advances in the pathophysiology and diagnosis of essential tremor
- 3) Understand the most recent advances in the pathophysiology and diagnosis of dystonic tremor

2206 Parallel Session **Gastrointestinal dysfunction in Parkinson's disease** **15:30 – 17:30**

Chairs: Ronald Pfeiffer
Memphis, TN, USA
Barbara Sonies
Potomac, MD, USA

15:30 Pathophysiology of gastrointestinal dysfunction in parkinsonism
Ronald Pfeiffer
Memphis, TN, USA

16:10 Management of dysphagia and upper gastrointestinal dysfunction
Barbara Sonies
Potomac, MD, USA

16:50 Management of bowel dysfunction in parkinsonism
Sarah Marrinan
Newcastle upon Tyne, United Kingdom

Recommended Audience: Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

2206 Parallel Session , cont.

At the conclusion of this session, participants should be better able to:

- 1) Be aware of the pathophysiological basis for gastrointestinal dysfunction in Parkinson's disease at all levels of the gastrointestinal tract
- 2) Identify the most important management strategies for dysphagia and upper gastrointestinal tract in Parkinson's disease
- 3) Identify the most important management strategies for bowel dysfunction in parkinsonism

2207 Parallel Session **Environmental risk factors in Parkinson's disease** **15:30 – 17:30**

Chairs: Caroline Tanner
San Francisco, CA, USA
Ruey-Meei Wu
Taipei, Taiwan

15:30 Epidemiological evidence linking environmental and lifestyle risk factors in Parkinson's disease
Caroline Tanner
San Francisco, CA, USA

16:10 Military service and neurodegenerative diseases
John Duda
Philadelphia, PA, USA

16:50 Gene environmental interactions in neurodegenerative diseases: Clinical association and mechanisms
Ruey-Meei Wu
Taipei, Taiwan

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Understand the epidemiological evidence linking environmental and lifestyle risk factors and neurodegenerative diseases
- 2) Evaluate the potential for military service to act as a risk factor for neurodegenerative disease
- 3) Comprehend the pathophysiologic mechanisms underlying gene environmental interactions and neurodegenerative diseases

2208 Parallel Session

New technologies in evaluation of treatment of movement disorder patients **15:30 – 17:30**

Chairs: Bastiaan Bloem
Nijmegen, Netherlands
Alberto Espay
Cincinnati, OH, USA

15:30 Instrumental analysis of tremor
Rodger Elble
Springfield, IL, USA

16:10 Instrumental analysis of parkinsonian symptoms
Walter Maetzler
Tübingen, Germany

16:50 Instrumental analysis of gait and postural reflexes
Alice Nieuwboer
Heverlee, Belgium

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Understand the methods for the measurement and diagnosis of tremor
- 2) Understand the new methods to measure motor fluctuations in Parkinson's disease from the clinic to the home
- 3) Understand instrumental analysis of gait from the clinic to the home

2309 Teaching Course

Non-motor complications of Parkinson's disease **15:30 – 17:30**

Chairs: Wolfgang Oertel
Marburg, Germany
Anthony Schapira
London, United Kingdom

15:30 Prevalence and tools to assess non-motor features of early and advanced Parkinson's disease
K. Ray Chaudhuri
London, United Kingdom

16:10 Autonomic and sleep disorders: Diagnosis and treatment
Claudia Trenkwalder
Kassel, Germany



Monday, June 15, 2015

2309 Teaching Course , cont.

16:50 Cognitive and neuropsychiatric issues
Caroline Williams-Gray
Cambridge, United Kingdom

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Describe the frequency of occurrence of non-motor disorders in early and advanced Parkinson's disease as well as best tools to assess these disorders
- 2) Discuss the autonomic and sleep issues in Parkinson's disease, how to assess and treat
- 3) Understand how to assess and manage cognitive decline, depression, anxiety, and impulse control symptoms in Parkinson's disease

2310 Teaching Course

Tips and tricks in movement disorders examination 15:30 – 17:30

Chairs: Paul Greene
New York, NY, USA
Ryosuke Takahashi
Kyoto, Japan

15:30 Examination pearls in parkinsonism
Sean O'Sullivan
Cork, Ireland

16:10 Examination tips in tremor
Nin Bajaj
Nottingham, United Kingdom

16:50 Examination highlights in hyperkinetic movement disorders
Paul Greene
New York, NY, USA

Recommended Audience: Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

2310 Teaching Course , cont.

At the conclusion of this session, participants should be better able to:

- 1) Identify key characteristics of different parkinsonian conditions through the clinical examination
- 2) Utilize a range of semiologic maneuvers to examine, characterize and differentiate tremors
- 3) Use strategic examination techniques to assist in the differential diagnosis of hyperkinetic movement disorders

2411 Skills Workshop

Conquest of Wilson's disease 18:00 – 19:30

This interactive session will have didactic and video-interactive components that deal with Wilson's disease diagnosis and therapeutic advances.

Annu Aggarwal
Mumbai, India
Egberto Barbosa
São Paulo, Brazil

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Clinically recognize and diagnose Wilson's disease
- 2) Understand how to apply therapy in Wilson's disease in order to reduce morbidity and mortality
- 3) Understand how recent advances in the pathophysiology of Wilson's disease guide therapy

2412 Skills Workshop

DBS for non-parkinsonian movement disorders 18:00 – 19:30

This interactive session will have didactic and video-interactive components that deal with optimization of the postoperative management of non-parkinsonian movement disorders.

Patricia Limousin
London, United Kingdom
Michele Tagliati
Los Angeles, CA, USA

Recommended Audience: Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

2412 Skills Workshop , cont.

At the conclusion of this session, participants should be better able to:

- 1) Resolve postoperative problems occurring in DBS for non-Parkinson's disease movement disorders
- 2) Recognize limitations of DBS in non-Parkinson's disease movement disorders
- 3) Optimize the management of DBS patients after surgery

2413 Skills Workshop

Pain in Parkinson's disease 18:00 – 19:30

This interactive session will focus on learning about the latest advances related to the issue of pain in Parkinson's disease, including how to classify the various types of pain in Parkinson's disease, what is Parkinson's disease related and what is not, the description of scales that may be appropriate to use in Parkinson's disease studies including Parkinson's disease specific pain scales, the prevalence of pain in Parkinson's disease and treatment advances and relevant pain focused clinical trials.

Santiago Perez Lloret
Buenos Aires, Argentina
Michele Tinazzi
Verona, Italy

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Recognize the different types of chronic pain suffered by Parkinson's disease patients and not consider "pain" as a non-heterogeneous concept in Parkinson's disease
- 2) Recognize what may be the base bedside and other instruments to lend clarity to the concept of pain in Parkinson's disease and describe role of validated instruments for pain in Parkinson's disease if any.
- 3) Identify a rational and classification based management strategy for pain in Parkinson's disease and address treatment based on origin of pain and also learn regarding emerging clinical trials addressing pain in Parkinson's disease

Monday, June 15, 2015

2414 Skills Workshop

Moving at night: RLS, RBD and other movement disorders in sleep **18:00 – 19:30**

This interactive session is designed to introduce attendees to the main motor sleep disorders in the setting of patients with movement disorders (e.g., Parkinson's disease, multiple system atrophy, dementia with Lewy bodies, restless legs syndrome). The aim is to provide an overview of sleep in REM Sleep Behavior Disorder and restless legs syndrome including periodic limb movements, which overlap with many neurodegenerative disorders. Participants will learn about these phenomena and syndromes by video presentations and practical examples given by sleep and movement specialists.

William Ondo
Houston, TX, USA
Federica Provini
Bologna, Italy

Recommended Audience: Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Identify signs and symptoms of restless legs syndrome, periodic limb movements and their nighttime appearance
- 2) Distinguish REM Sleep Behavior Disorder from other sleep disorders and explain its importance for neurodegeneration
- 3) Further understand movement disorders in sleep such as REM and non-REM parasomnias

2415 Skills Workshop

Mirror and motor overflow movements **18:00 – 19:30**

In this interactive session, participants will be able to recognize mirror and other motor overflow movements, understand their basis and mechanism, and learn the genetic, congenital and acquired causes.

Massimo Cincotta
Florence, Italy
Emmanuel Roze
Paris, France

2415 Skills Workshop , cont.

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Identify the phenomenology of physiological and pathological mirror and other motor overflow movements
- 2) Understand the neurobiology and pathophysiology of mirror and other motor overflow movements
- 3) Have a knowledge of the genetic, congenital, and range of acquired causes, including movement disorders, of mirror and other motor overflow movements

2516 Video Session

What if it's not Huntington's disease? **18:00 - 19:30**

In this interactive video session, participants will improve their skills to recognize the phenomenology of chorea and outline appropriate investigations for the differential diagnosis. The session will focus on the most frequent forms of genetic and acquired chorea.

Anne-Catherine Bachoud-Levi
Creteil, France
Joaquim Ferreira
Lisbon, Portugal

Recommended Audience: Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Recognize the phenomenology of Huntington's disease and other disorders in which chorea is the main clinical feature
- 2) Recognize the phenomenology of Huntington's disease-like (HDL) syndromes
- 3) Outline appropriate approach and diagnostic work-up for patients with chorea

2517 Video Session

Pediatric movement disorders **18:00 – 19:30**

This interactive session will use an interactive approach with both video and didactic presentations that address the spectrum of movement disorders in the pediatric population.

Jennifer Friedman
Del Mar, CA, USA
Terence Sanger
Los Angeles, CA, USA

Recommended Audience: Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Recognize the spectrum of common movement disorders in children and adolescents
- 2) Recognize the spectrum of uncommon or unusual movement disorders children and adolescents
- 3) Recognize the diagnostic workup of movement disorders in children and adolescents

2518 Video Session

Facial movement disorders **18:00 – 19:30**

In this interactive session, participants will be able to recognize common and rare facial involuntary movements and understand their causes and learn about their underlying pathophysiologic mechanisms.

Carlo Colosimo
Rome, Italy
Eng-King Tan
Singapore

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Understand the phenomenology of different facial movement disorders
- 2) Recognize the association of various movement disorders with neurological diseases
- 3) Understand the pathophysiology and management of the etiology and racial differences in hemifacial spasm



Tuesday, June 16, 2015

3101 Plenary Session  Understanding and treating proteinopathies 8:00 – 10:00 Chairs: Ted Dawson <i>Baltimore, MD, USA</i> Eliezer Masliah <i>La Jolla, CA, USA</i> 8:00 What does genetics tell us about treating proteinopathies? Ted Dawson <i>Baltimore, MD, USA</i> 8:40 RNAi and antibody-based therapeutic approaches Eliezer Masliah <i>La Jolla, CA, USA</i> 9:20 Therapies targeting autophagy in movement disorders David Sulzer <i>New York, NY, USA</i> Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees At the conclusion of this session, participants should be better able to: 1) Describe insights from genetic causes into the pathogenesis of sporadic proteinopathies 2) Discuss the potential of antibody therapy to slow the progression of tauopathies and synucleinopathies 3) Describe the potential of therapies targeting autophagy in movement disorders	3102 Plenary Session, cont. 11:40 Autoimmune syndromes in the hinterland of epilepsies and movement disorders Sarosh Irani <i>Oxford, United Kingdom</i> 12:20 Role of channelopathies in epilepsy and movement disorders Holger Lerche <i>Ulm, Germany</i> Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees At the conclusion of this session, participants should be better able to: 1) Describe the genetic associations and clinical features of disorders which show features of both epilepsies and movement disorders 2) Describe the clinical features, phenomenological and treatment responses of patients with antibody mediated syndromes which show features of movement disorders and epilepsies 3) Correlate the pathophysiology of these disorders with channel and cellular defects and compare and contrast the disorders with one another at the molecular level	3203 Parallel Session  , cont. 16:50 Human-induced-pluripotent stem cells in Huntington's disease Steven Finkbeiner <i>San Francisco, CA, USA</i> Recommended Audience: Basic scientists, Clinical academicians At the conclusion of this session, participants should be better able to: 1) Understand the role of human-induced-pluripotent stem cells in studying the pathogenesis and developing treatments for Parkinson's disease 2) Understand the cell biology discovery, diagnosis and transplantation of dopaminergic cells differentiated from patient-derived iPS cells or human ES Cells for Parkinson's disease 3) Understand the role of using human-induced-pluripotent stem derived neurons in Huntington's disease
3102 Plenary Session The overlap between epilepsy and movement disorders 11:00 – 12:30 Chairs: Marina de Koning-Tijssen <i>Groningen, Netherlands</i> Sarosh Irani <i>Oxford, United Kingdom</i> 11:00 Genetic syndromes in the hinterland of epilepsies and movement disorders Marina de Koning-Tijssen <i>Groningen, Netherlands</i>	3203 Parallel Session  Is there a role for therapies with human-induced-pluripotent stem cells-derived (hiPSC) neurons in patients with Parkinson's disease and Huntington's disease? 15:30 – 17:30 Chairs: William Mobley <i>La Jolla, CA, USA</i> Ole Isacson <i>Belmont, MA, USA</i> 15:30 Isogenic human-induced-pluripotent stem cells for studying Parkinson's disease Stuart Lipton <i>La Jolla, CA, USA</i> 16:10 Human-induced-pluripotent stem cells and human embryonic stem cell-based therapies in Parkinson's disease Ole Isacson <i>Belmont, MA, USA</i>	3204 Parallel Session  Genetics of proteinopathy-associated parkinsonian disorders 15:30 – 17:30 Chairs: Don Cleveland <i>La Jolla, CA, USA</i> Eng-King Tan <i>Singapore</i> 15:30 Utility of next generation sequencing in the diagnosis of parkinsonian disorders Andrew Singleton <i>Bethesda, MD, USA</i> 16:10 Clinico-genetic correlations in parkinsonian disorders Zbigniew Wszolek <i>Jacksonville, FL, USA</i> 16:50 Therapeutic strategies in genetic forms of proteinopathies Don Cleveland <i>La Jolla, CA, USA</i> Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

Tuesday, June 16, 2015

3204 Parallel Session , cont.

At the conclusion of this session, participants should be better able to:

- 1) Understand the clinical utility and future application of next generation diagnostics in deciphering the genetics of proteinopathies
- 2) Appreciate the relevance of clinico-genetic correlations in proteinopathy associated neurodegenerative movement disorders
- 3) Understand different therapeutic strategies in genetic forms of proteinopathies

3205 Parallel Session

What's new in Huntington's disease?

15:30 – 17:30

Chairs: Michael Levine
Los Angeles, CA, USA

Cristina Sampaio
Princeton, NJ, USA

15:30 Biomarkers of pre-manifest and manifest Huntington's disease: Ready for clinical trials?

Ralf Reilmann
Münster, Germany

16:10 From pathophysiology to new treatment strategies: Insights from the laboratory and animal models

Michael Levine
Los Angeles, CA, USA

16:50 Update on disease modifying and symptomatic treatments

Cristina Sampaio
Princeton, NJ, USA

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Discuss biomarkers of pre-manifest and manifest Huntington's disease and their role as potential outcomes of clinical trials in Huntington's disease
- 2) Assess the contribution of preclinical research to understand pathophysiology and to study new treatment strategies in Huntington's disease
- 3) Describe current achievements in and future options for the treatment of Huntington's disease

3206 Parallel Session

Integrated care models in Movement Disorders: Past, present and future

15:30 – 17:30

Chairs: David John Burn
Newcastle upon Tyne, United Kingdom
Sue Thomas
London, United Kingdom

15:30 The history of interdisciplinary care in Parkinson's and other movement disorders

Sue Thomas
London, United Kingdom

16:10 Developments in interdisciplinary care: What have we achieved so far?

Galit Kleiner-Fisman
Toronto, ON, Canada

16:50 What does the future hold for interdisciplinary care?

David John Burn
Newcastle upon Tyne, United Kingdom

Recommended Audience: Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Appreciate the roots and development of interdisciplinary care in Parkinson's disease and other movement disorders from a worldwide perspective
- 2) Understand the current status and evidence of interdisciplinary care in Parkinson's disease and other movement disorders within a wide geographical context
- 3) Be apprised of potential future developments in interdisciplinary care and how this may change practice

3207 Parallel Session

Dopa-responsive dystonia and related disorders

15:30 – 17:30

Chairs: Beom Jeon
Seoul, Korea
Manju Kurian
London, United Kingdom

3207 Parallel Session , cont.

15:30 Clinical spectrum of dystonias that are responsive to dopamine-related drugs

Beom Jeon
Seoul, Korea

16:10 Laboratory investigation of dystonias that are responsive to dopamine-related drugs

Manju Kurian
London, United Kingdom

16:50 Treatments, long-term outcomes, and strategies for complications

Anne Weissbach
Lübeck, Germany

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Appreciate the clinical and genetic spectra of dystonias that are responsive to levodopa
- 2) Understand genotype-phenotype correlations, and pathogenesis of different
- 3) Appreciate strategies for diagnostic testing and treatment

3208 Parallel Session

Gaucher and Parkinson's disease: Lessons from an unexpected link

15:30 – 17:30

Chairs: Roy Alcalay
New York, NY, USA
Anthony Schapira
London, United Kingdom

15:30 Parkinson's disease penetrance and phenotype in GBA carriers

Roy Alcalay
New York, NY, USA

16:10 Pathophysiological mechanisms linking Parkinson's disease and Gaucher's disease

Kathrin Brockmann
Tübingen, Germany

16:50 Prospects for therapy

Anthony Schapira
London, United Kingdom

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees



Tuesday, June 16, 2015

3208 Parallel Session , cont.

At the conclusion of this session, participants should be better able to:

- 1) Describe the Parkinson's disease phenotype of carriers and understand the risk of conversion in carriers of GBA mutations
- 2) Understand the pathophysiology that may link Parkinson's disease and Gaucher's disease
- 3) Discuss potential new therapies for PD focused on the glucocerebrosidase pathway

3309 Teaching Course

Diagnosis and treatment of atypical parkinsonism 15:30 – 17:30

Chairs: Lawrence Golbe
New Brunswick, NJ, USA

Günter Höglinger
Munich, Germany

15:30 Clinical "red flag" signs for the diagnosis of MSA and PSP/CBD
Yvette Bordelon
Los Angeles, CA, USA

16:10 Laboratory investigations supporting the diagnosis of MSA and PSP/CBD
Günter Höglinger
Munich, Germany

16:50 Treatment options and their evidence
Lawrence Golbe
New Brunswick, NJ, USA

Recommended Audience: Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Distinguish MSA and PSP/CBD from other parkinsonian disorders including Parkinson's disease
- 2) Describe clinical diagnosis criteria and laboratory investigations
- 3) Discuss therapeutic options for MSA and PSP/CBD based on available evidence

3310 Teaching Course

Management misadventures in Movement Disorders 15:30 – 17:30

Chairs: Kelly Foote
Gainesville, FL, USA

Jorge Juncos
Atlanta, GA, USA

15:30 Pitfalls in the management of Parkinson's disease
Jorge Juncos
Atlanta, GA, USA

16:10 Preventable iatrogenic errors in movement disorders
John O'Sullivan
Coorparoo, QLD, Australia

16:50 Surgical mismanagement of Parkinson's disease and dystonia
Kelly Foote
Gainesville, FL, USA

Recommended Audience: Clinical academicians, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Recognize the capacity of the standard Parkinson's disease pharmacotherapy to harm when inappropriately chosen or not chosen
- 2) Highlight preventable management errors in a variety of movement disorders to avoid replacing the original disability with a clinician-induced one
- 3) Review pitfalls in the surgical management of Parkinson's disease and other diseases to limit suboptimal outcomes

3411 Skills Workshop

The clinician loses his balance: How to approach genetic and non-genetic ataxia 18:00 – 19:30

In this interactive session, which will be illustrated with video examples, participants will be instructed on the use of clinical, radiological and genetic tools to investigate different forms of ataxia.

Pramod Pal
Bangalore, India
Massimo Pandolfo
Brussels, Belgium

3411 Skills Workshop , cont.

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Use a logical clinical diagnostic approach to distinguish genetic ataxia from non-genetic ataxia
- 2) Examine and patient with loss of balance and recognize the phenomenology of ataxia and distinguish ataxia from vestibular dysfunction
- 3) Use laboratory, genetic and imaging studies to identify the different forms of ataxia in a logical structured fashion in the diagnosis of ataxia

3412 Skills Workshop

Practical issues in using neuroimaging in Movement Disorders: What, when, why 18:00 – 19:30

In this interactive session, an approach to the use and application of neuroimaging for diagnosis and management of movement disorders will be presented.

Danna Jennings
New Haven, CT, USA
Klaus Seppi
Innsbruck, Austria

Recommended Audience: Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Describe the neuroimaging techniques used in the field of movement disorders
- 2) Develop a strategy for when to order specific tests and which tests to order in clinical practice to aid in the diagnosis of movement disorders
- 3) Describe the typical neuroimaging patterns that are typical of movement disorders that will be encountered regularly in clinical practice

Tuesday, June 16, 2015

3513 Video Session

Multiple phenotypic presentations of atypical parkinsonian disorders due to proteinopathies

18:00 – 19:30

In this interactive session, participants will be able to recognize classical and more recently-described phenotypes of atypical parkinsonian disorders.

Giovanni Fabbrini
Rome, Italy

Irene Litvan
San Diego, CA, USA

Recommended Audience: Clinical academicians, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Identify the common and rare forms of tauopathies
- 2) Identify the common and rare forms of synucleinopathies
- 3) Understand what investigations can help differentiate between tauopathies and synucleinopathies

3514 Video Session

Psychogenic movement disorders

18:00 – 19:30

In this video session, participants will learn about clinical features useful in the assessment of patients with a possible diagnosis of a psychogenic movement disorder.

Kailash Bhatia
London, United Kingdom

Francesca Morgante
Messina, Italy

Recommended Audience: Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

3514 Video Session , cont.

At the conclusion of this session, participants should be better able to:

- 1) Appreciate the clinical characteristics of hyperkinetic psychogenic movement disorders
- 2) Recognize the clinical signs of psychogenic parkinsonism and other hypokinetic psychogenic movement disorders
- 3) Understand common social, psychological, medical, and legal circumstances associated with the appearance of psychogenic movement disorders

3515 Video Session

Tics and stereotypies from childhood to adulthood

18:00 - 19:30

This interactive session will feature video-based, case-oriented content differentiating tics vs. stereotypies and new subtypes of both these movements. Included are strategies in the pharmacological, psychological and behavioral approaches in the management of tics and stereotypies.

Tammy Hedderly
West Sussex, United Kingdom

Mayur Pandya
Cleveland, OH, USA

Recommended Audience: Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Recognize key terminology and differentiating factors of tics vs. stereotypies, including updates on new subtypes of both these movements
- 2) Recognize how phenomenology and symptoms vary through transition and recognize the signs and cognitive features within a biopsychosocial model
- 3) Develop pharmacological, psychological and behavioral approaches in the management of tics and stereotypies

3516 Video Session

Unusual presentation of common movement disorders

18:00 – 19:30

In this interactive session, participants will be better able to recognize the spectrum of unusual presentations of common movement disorders, distinguish them from other less common disorders, and discuss the pragmatic diagnostic work-up in such patients.

Michael Hayes
Concord, NSW, Australia

Stephen Reich
Baltimore, MD, USA

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Recognize the phenotypic spectrum of unusual presentations of common movement disorders
- 2) Contrast these presentations with comparable presentations in uncommon movement disorders
- 3) Be familiar with the pragmatic diagnostic work-up in patients with an unusual presentation of a common movement disorder



Tuesday, June 16, 2015

3517 Video Session **TICKET**

Unusual gait disorders

18:00 – 19:30

In this video session, participants will learn how to clinically analyze gait and learn how to diagnose unusual gait disorders and their disease associations.

Bastiaan Bloem
Nijmegen, Netherlands
Alfonso Fasano
Toronto, ON, Canada

Recommended Audience: Clinical academicians,
Non-physician Health Professionals, Practitioners,
Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Understand the different components of normal gait
- 2) Understand how to evaluate gait disorders by breaking down the abnormalities into the different components of the gait cycle
- 3) Understand how to diagnose unusual gait disorders and their disease associations

3518 Video Session **TICKET**

Movement disorder emergencies

18:00 – 19:30

In this interactive session, participants will be better able to recognize the spectrum of acute presentations of Parkinson's disease and other movement disorders, and discuss the pragmatic diagnostic and therapeutic approach in such cases.

Steven Frucht
New York, NY, USA
Timothy Lynch
Dublin, Ireland

Recommended Audience: Clinical academicians,
Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Identify, diagnose and manage Parkinson's disease related emergencies
- 2) Recognize common and rare hyperkinetic disorders which may present as an acute condition
- 3) Manage all emergencies related to DBS



Wednesday, June 17, 2015

4101 Plenary Session

Proteinopathies: From paradigm shift to diagnosis of parkinsonian disorders 8:00 – 10:00

Chairs: C. Warren Olanow
New York, NY, USA

Werner Poewe
Innsbruck, Austria

8:00 Prion-like mechanisms in the pathogenesis of parkinsonian disorders

C. Warren Olanow
New York, NY, USA

8:40 Are we ready for a protein-based clinical classification of parkinsonian disorders?

David Williams
Brighton, VIC, Australia

9:20 Novel proteinopathy based tracers for diagnosis

Makoto Higuchi
Chiba, Japan

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Discuss how alpha-synuclein and other misfolded proteins might propagate
- 2) Discuss the concept of a clinical protein-based classification for parkinsonian disorders
- 3) Identify new imaging techniques (tau, alpha-synuclein) for protein identification and their use diagnostically

4102 Plenary Session

Breaking news in movement disorders 10:30 – 12:00

Chairs: Anthony Lang
Toronto, ON, Canada
Ryosuke Takahashi
Kyoto, Japan

10:30 Late-breaking clinical trials and clinical science in Parkinson's disease

Tanya Simuni
Chicago, IL, USA

4102 Plenary Session, cont.

11:00 Late-breaking clinical trials and clinical science in other movement disorders

Tiago Mestre
Ottawa, ON, Canada

11:30 Late-breaking advances in basic science

D. James Surmeier
Chicago, IL, USA

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Review recent advances in the therapy and other clinical aspects of Parkinson's disease
- 2) Provide an update on the progress of therapeutic interventions and other clinical domains for other movement disorders
- 3) Provide an update on the latest advances in basic science related to Movement Disorders

4203 Parallel Session

Novel biomarkers to differentiate neurodegenerative parkinsonian disorders 15:00 – 17:00

Chairs: Anders Dale
La Jolla, CA, USA
Antonio Strafella
Toronto, ON, Canada

15:00 Nuclear imaging to study parkinsonian disorders
Antonio Strafella
Toronto, ON, Canada

4203 Parallel Session , cont.

15:40 MRI to differentiate parkinsonian disorders

Stephane Lehericy
Paris, France

16:20 Biological markers to differentiate parkinsonian disorders

Mario Masellis
Toronto, ON, Canada

Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Understand how PET imaging is helping to study neurodegenerative movement disorders
- 2) Understand how structural imaging is helping to differentiate neurodegenerative movement disorders
- 3) Understand about biomarkers helping to differentiate proteinopathies presenting as movement disorders

4204 Parallel Session

Mild cognitive impairment in Parkinson's disease 15:00 – 17:00

Chairs: Hubert Fernandez
Cleveland, OH, USA
Vincent Filoteo
San Diego, CA, USA

15:00 MCI in Parkinson's disease: Results from the MDS Validation Study Group
Jennifer Goldman
Chicago, IL, USA

NEW!

How to Publish in *Movement Disorders Journal* and *Movement Disorders – Clinical Practice* Wednesday, June 17, 2015

12:00-13:30

Meet the Editors, Associate Editors and members of the Editorial Board for both MDS Journals and learn the process of how decisions are made regarding acceptance of articles, what the timeline for publishing involves, what the difference is between the two journals and the type of articles that are published in each. This is a non-CME activity. Tickets are not required for this event.



Wednesday, June 17, 2015

4204 Parallel Session cont.

15:40 Early markers of cognitive decline in Parkinson's disease
Alice Chen-Plotkin
Philadelphia, PA, USA

16:20 Therapeutic developments in the treatment of cognitive impairment
Hubert Fernandez
Cleveland, OH, USA

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Recognize recent data showing the validity and prediction of dementia of MDS Parkinson's disease Mild Cognitive Impairment criteria
- 2) Understand the role of alpha-synuclein and genetics in cognitive decline
- 3) Recognize new developments in the treatment of PD-MCI and dementia

4205 Parallel Session

Next generation genetics for clinicians 15:00 – 17:00

Chairs: Thomas Gasser
Tübingen, Germany
Haydeh Payami
Albany, NY, USA

15:00 The benefits and pitfalls in data interpretation in gene panel and exome sequencing
Owen Ross
Jacksonville, FL, USA

15:40 Genotype-phenotype correlations: Insights from the new versus old genetics
Thomas Gasser
Tübingen, Germany

16:20 Mendelian genetics does not explain all familial disease: GWAS-environmental studies, epigenetics and single cell genetic variability
Haydeh Payami
Albany, NY, USA

4205 Parallel Session cont.

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Provide an overview of recent and future developments in disease genetics, and opportunities associated with these methods
- 2) Compare insights into genotype-phenotype correlations gained from new versus older genetic techniques
- 3) Discuss the likely long term implication of these methods for clinical diagnosis and treatment

4206 Parallel Session

Electrophysiological, morphological and molecular basis of levodopa-induced dyskinesias and their therapeutic implications 15:00 – 17:00

Chairs: Erwan Bezard
Bordeaux, France
Paolo Calabresi
Rome, Italy

15:00 Electrophysiological basis
Paolo Calabresi
Rome, Italy

15:40 Morphological basis
Masahiko Tomiyama
Aomori, Japan

16:20 Molecular basis
Erwan Bezard
Bordeaux, France

Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Describe the pre- and postsynaptic electrophysiological alterations of striatal neural networks in levodopa-induced dyskinesias
- 2) Describe the neuroanatomical changes including those of striatal dendritic spines in levodopa-induced dyskinesias
- 3) Describe the molecular basis of levodopa-induced dyskinesia and its therapeutic implications

4207 Parallel Session

Movement disorders in paraneoplastic and autoimmune disease 15:00 – 17:00

Chairs: Josep Dalmau
Philadelphia, PA, USA
Oscar Gershanik
Buenos Aires, Argentina

15:00 Paraneoplastic movement disorders
Jessica Panzer
Philadelphia, PA, USA

15:40 Sydenham's chorea and systemic autoimmune disorders
Shekeeb Mohammad
Wentworthville, NSW, Australia

16:20 Movement disorders associated with antibodies against cell-surface or synaptic proteins
Josep Dalmau
Philadelphia, PA, USA

Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Understand and diagnose paraneoplastic movement disorders
- 2) Recognize the clinical features and pathogenesis of Sydenham's chorea and other systemic autoimmune movement disorders
- 3) Identify the spectrum of movement disorders associated with antibodies against cell-surface and synaptic proteins

Wednesday, June 17, 2015

4208 Parallel Session

Movement disorders in the media

15:00 – 17:00

Discussion Panel:

Brandon Barton
Chicago, IL, USA
Aikaterini Kompoliti
Chicago, IL, USA
Maria Stamelou
Athens, Greece
Carolyn Sue
Sydney, NSW, Australia

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Recognize how movement disorders are represented in the movies
- 2) Recognize how movement disorders are represented in the news
- 3) Recognize how movement disorders are represented on the internet

4309 Teaching Course

Cognitive and psychiatric disturbances in atypical parkinsonian disorders

15:00 – 17:00

Chairs: Murray Grossman
Philadelphia, PA, USA
David Salmon
La Jolla, CA, USA

15:00 How to test cognition and behavior
Alexander Troster
Phoenix, AZ, USA

15:40 Cognitive disturbance in atypical parkinsonian disorders
Murray Grossman
Philadelphia, PA, USA

16:20 Psychiatric disturbances in atypical parkinsonian disorders
Javier Pagonabarraga Mora
Barcelona, Spain

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

4309 Teaching Course , cont.

At the conclusion of this session, participants should be better able to:

- 1) Recognize how to screen, detect, and evaluate cognitive and psychiatric symptoms using the most relevant bedside tests in atypical parkinsonian disorders
- 2) Recognize and understand the pathophysiology and treatment of cognitive disturbance in atypical parkinsonian disorders
- 3) Recognize and treat psychiatric disturbances of patients with atypical parkinsonian disorders (PSP, MSA, CBS)

4310 Teaching Course

Detecting prodromal Parkinson's disease

15:00 – 17:00

Chairs: Daniela Berg
Tübingen, Germany
Ron Postuma
Montreal, QC, Canada

15:00 Clinical markers of prodromal Parkinson's disease
Ron Postuma
Montreal, QC, Canada

15:40 Imaging and other biomarkers of prodromal Parkinson's disease
Kenneth Marek
New Haven, CT, USA

16:20 Putting it together: Can we make diagnostic criteria for prodromal Parkinson's disease?

Daniela Berg
Tübingen, Germany

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

4310 Teaching Course , cont.

At the conclusion of this session, participants should be better able to:

- 1) Understand the range of clinical markers of early/prodromal Parkinson's disease, their predictive value, and eventual diagnostic utility
- 2) Understand neuroimaging features of early/prodromal Parkinson's disease, including MRI, dopaminergic functional neuroimaging, ultrasound, and cardiac scintigraphy as well as blood and cerebrospinal biomarkers for early/prodromal Parkinson's disease
- 3) Review research criteria for prodromal Parkinson's disease and discuss ethical issues

4411 Skills Workshop

Neuropathology of proteinopathies

17:30 – 19:00

This interactive session is intended to provide the participant with an understanding of the basic neuropathologies of proteinopathies and will include basic methodologies and principles of neuropathology that can be understood by non-neuropathologists to enhance interpreting neuropathological data in scientific studies.

Irina Alafuzoff
Uppsala, Sweden
Thomas Beach
Sun City, AZ, USA

Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Understand the different laboratory techniques and limitations for identifying proteinopathies
- 2) Identify different proteinopathic lesions and their significance
- 3) Describe the classification system for diagnosing proteinopathies



Wednesday, June 17, 2015

4412 Skills Workshop **TICKET**

Managing acute and chronic post-operative issues following DBS in Parkinson's disease

17:30 – 19:00

This interactive session will have didactic and video-interactive components that deal with optimization of postoperative management of DBS in Parkinson's disease.

Anna Castrioto
Grenoble, France

Jill Ostrem
Greenbrae, CA, USA

Recommended Audience: Clinical academicians,
Non-physician Health Professionals, Practitioners,
Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Manage post-operative motor problems in Parkinson's disease patients
- 2) Manage post-operative non-motor problems in Parkinson's disease patients
- 3) Analyze and understand postoperative side effects related to DBS

4413 Skills Workshop **TICKET**

Palliative care for parkinsonian syndromes: A focus on non-motor issues

17:30 – 19:00

In this interactive session, participants will be able to understand the principles of palliative care framed within a conceptual model as well as lessons learned from its practical application in an interdisciplinary clinic. The faculty will outline key principles of palliative care management in the Parkinson's disease nurse specialist in this pathway. Practical tips will be given on how to best apply those principles.

Veronica Bruno
Toronto, ON, Canada

Julie Carter
Portland, OR, USA

4413 Skills Workshop **TICKET**, cont.

Recommended Audience: Clinical academicians,
Non-physician Health Professionals, Practitioners,
Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Identify the key principles of palliative care (with a focus on non-motor) in Parkinson's using a conceptual framework
- 2) Understand the practical benefits and pitfalls of a model of palliative care in Parkinson's disease
- 3) Understand the role of the Parkinson's disease nurse in palliative care in Parkinson's disease

4414 Skills Workshop **TICKET**

Practical management of bladder and sexual dysfunction in parkinsonian disorders

17:30 – 19:00

In this interactive session, participants will be able to understand the principles of managing bladder and sexual dysfunction in parkinsonian disorders, practical strategies on how to best to detect and evaluate disturbance and their practical management. The faculty will illustrate these points through lectures and case presentations.

Gila Bronner
Ramat-Gan, Israel

Jalesh Panicker
London, United Kingdom

Recommended Audience: Clinical academicians,
Non-physician Health Professionals, Practitioners,
Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Understand the basis for bladder and sexual dysfunction in patients with parkinsonian disorders
- 2) Understand how to investigate and manage bladder and sexual dysfunction in patients with parkinsonian disorders
- 3) Become familiar with newer treatment options for managing bladder and sexual dysfunction in parkinsonian disorders

4415 Skills Workshop **TICKET**

The dystonic or spastic upper limb: Reassessing strategies

17:30 – 19:00

This interactive session will have didactic and video-didactic components that deal with dystonia and spasticity assessment in regard to impacts in impairment and disability, as well as therapeutic strategies.

Ryuji Kaji
Tokushima City, Japan

Raymond Rosales
Manila, Philippines

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Assess upper limb dystonia and spasticity in regard to severity of impairment, postures and functional disability
- 2) Differentiate pure upper limb dystonia and spasticity, spastic dystonia and associated reactions
- 3) Formulate a therapeutic strategy that will reduce impairment and improve passive and active functions in spasticity and dystonia

4516 Video Session **TICKET**

Unusual movement disorders

17:30 – 19:00

This interactive session will help attendees develop an approach to the differential diagnosis of unusual movement disorders.

Orlando Barsottini
São Paulo, Brazil

Mandar Jog
London, ON, Canada

Recommended Audience: Clinical academicians,
Non-physician Health Professionals, Practitioners,
Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Identify less common inherited movement disorders
- 2) Recognize less common acquired or "idiopathic" movement disorders
- 3) Develop an approach to the differential diagnosis of unusual movement disorders

Wednesday, June 17, 2015

4517 Video Session **TICKET**

Movement disorders in neuromuscular diseases

17:30 – 19:00

This session will demonstrate examples of neuromuscular diseases with abnormal movements and postures that may be seen in or present to a movement disorder clinic.

Alberto Espay

Cincinnati, OH, USA

Nestor Galvez-Jimenez

Weston, FL, USA

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Recognize movements arising from peripheral nerve hyper-excitability syndromes
- 2) Identify myopathic causes of cramps and abnormal postures (ie. Limb, trunk camptocormia)
- 3) Recognize neuromuscular disease that can mimic a movement disorder due to weakness

4518 Video Session **TICKET**

Eyes and movement disorders

17:30 – 19:00

In this interactive session, participants will learn bedside examination techniques, recognize categories of abnormal eye movements, and become familiar with patterns of oculomotor dysfunction in many movement disorders.

Tim Anderson

Christchurch, New Zealand

Janet Rucker

New York, NY, USA

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Undertake an efficient bedside examination of eye movements including saccades, pursuit, vergence, vestibular and alignment
- 2) Comprehend the phenomenology of abnormal spontaneous and evoked eye movements on bedside examination
- 3) Recognize patterns of abnormal eye movements that aid diagnosis in movement disorders





Thursday, June 18, 2015

5101 Plenary Session

Emerging paradigms for functional surgery for movement disorders

8:00 – 9:30

Chairs: Jens Volkmann
Würzburg, Germany

Paul Krack
Grenoble, France

8:00 Focused ultrasound
Jeff Elias
Charlottesville, VA, USA

8:30 Gamma Knife
Yoshinori Higuchi
Chiba City, Japan

9:00 New stimulation techniques in
DBS
Jens Volkmann
Würzburg, Germany

Recommended Audience: Basic scientists, Clinical
academicians, Non-physician Health Professionals,
Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should
be better able to:

- 1) Understand the pros and cons of focused
ultrasound
- 2) Understand the pros and cons of gamma knife
surgery
- 3) Understand the potential of steering technology
for DBS such as demand pacemakers, directional
stimulation, visual representation of electrode
localization and shape of electrical stimulation
field

5102 Controversies in Movement Disorders

10:00 – 11:00

Chairs: Anthony Lang
Toronto, ON, Canada

Philip Thompson
Adelaide, SA, Australia

10:00 Are synucleopathies prion
diseases? (YES)
Patrik Brundin
Grand Rapids, MI, USA

10:15 Are synucleopathies prion
diseases? (NO)
Glenda Halliday
Randwick, NSW, Australia

10:30 Should infusion therapies be
considered before DBS? (YES)
Angelo Antonini
Venice, Italy

10:45 Should infusion therapies be
considered before DBS? (NO)
Andres Lozano
Toronto, ON, Canada

Recommended Audience: Basic scientists, Clinical
academicians, Practitioners, Students/Residents/
Trainees

At the conclusion of this session, participants should
be better able to:

Topic 1:

- 1) Define the basic characteristics of a prion disease
- 2) Assess the pros and cons of the prion paradigm
applied to proteinopathies
- 3) Understand the state-of-the-art developments in
modeling such phenomenon

Topic 2:

- 1) Describe the clinical effects of STN-DBS and
infusion therapies on Parkinson's disease
symptoms
- 2) Review the more common side effects of the
STN-DBS and infusion therapies when used in
Parkinson's disease
- 3) Discuss indication and contraindications for STN-
DBS vs Infusion therapies in Parkinson's disease

5103 Blue Ribbon Highlights

11:00 – 12:00

Chairs: Charles Adler
Scottsdale, AZ, USA
Marcelo Merello
Buenos Aires, Argentina

*This session will provide a critical review of
the best poster presentations by a panel of
experts, highlighting the relevance, nov-
elty, and quality of both clinical and basic
research presented by delegates.*

Presenters:
Christine Klein
Lübeck, Germany
David Standaert
Birmingham, AL, USA

Recommended Audience: Basic scientists, Clinical
academicians, Non-physician Health Professionals,
Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should
be better able to:

- 1) Review recent developments in the basic science
of movement disorders
- 2) Discuss an overview of recent clinical developments
- 3) Define an overall perspective on current topics of
interest in movement disorders.

5204 Parallel Session



Models to study proteinopathies

15:00 – 17:00

Chairs: Kelvin Luk
Philadelphia, PA, USA

Miquel Vila
Barcelona, Spain

15:00 Use of human-derived protein as
seeds

Miquel Vila
Barcelona, Spain

15:40 Use of recombinant fibrils as
seeds

Kelvin Luk
Philadelphia, PA, USA

16:20 Structural and functional
characterization of seeding
protein strains

Ronald Melki
Gif-sur-Yvette, France

Recommended Audience: Basic scientists, Clinical
academicians

Thursday, June 18, 2015

5204 Parallel Session , cont.

At the conclusion of this session, participants should be better able to:

- 1) Describe the requirements for modeling proteinopathies using human-derived pathologically conformed protein as seeds
- 2) Understand the state of the art in modeling the seeding process
- 3) Define what strategy is useful for the research needs

5205 Parallel Session

Clinical pathological and genetic overlap between FTD and parkinsonism 15:00 – 17:00

Chairs: Glenda Halliday
Randwick, NSW, Australia
Ian MacKenzie
Vancouver, BC, Canada

15:00 The diagnostic difficulty of parkinsonism in frontotemporal dementia syndromes
James Rowe
Cambridge, United Kingdom

15:40 Pathology of parkinsonism in frontotemporal lobar degeneration
Ian MacKenzie
Vancouver, BC, Canada

16:20 New genes involved in overlapping FTD and parkinsonism
Isabelle Le Ber
Paris, France

Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Identify patients with parkinsonism that have underlying frontotemporal dementia pathologies
- 2) Define the pathologies and molecular signatures associated with parkinsonism in frontotemporal lobar degeneration
- 3) Name the new genes involved in parkinsonism and frontotemporal dementia syndromes

5206 Parallel Session

Parkinson's disease in underserved areas: Geographical and socioeconomic disparities in movement disorder care 15:00 – 17:00

Chairs: Louis Tan
Singapore
Richard Walker
North Shields, United Kingdom

15:00 The Asian Experience
Roland Dominic Jamora
Manila, Philippines

15:40 The African Experience
Richard Walker
North Shields, United Kingdom

16:20 The American Experience
Allison Willis
Philadelphia, PA, USA

Recommended Audience: Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Describe the movement disorders in developing countries that may create an impact into the global perspective
- 2) Identify key problem areas in diagnosis and treatment approaches of movement disorders in the developing countries
- 3) Understand how patient care outcomes are addressed and leveled with their socioeconomic implications

5207 Parallel Session

Drug-induced movement disorders 15:00 – 17:00

Chairs: Stewart Factor
Atlanta, GA, USA
Timothy Lynch
Dublin, Ireland

15:00 Understanding, recognizing and treating the tardive syndromes
Francisco Cardoso
Belo Horizonte, Brazil

15:40 Beyond tardive syndromes: Identifying and managing other

5207 Parallel Session , cont.

neuroleptic-induced movement disorders

Robert Rodnitzky
Iowa City, IA, USA

16:20 Not the usual suspects: Movement disorders caused by other drugs
Stewart Factor
Atlanta, GA, USA

Recommended Audience: Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Understand the pathophysiology, clinical spectrum, and treatment of the tardive syndromes
- 2) Identify and manage acute and chronic neuroleptic-induced movement disorders including acute dystonic reaction, akathisia, parkinsonism and neuroleptic malignant syndrome
- 3) Understand how to anticipate, recognize and treat movement disorders caused by other drugs including antiepileptics, antidepressants, cardiac drugs and other agents

5208 Parallel Session

Optimizing the effect of L-Dopa in Parkinson's disease 15:00 – 17:00

Chairs: Peter LeWitt
West Bloomfield, MI, USA
Per Odin
Bremerhaven, Germany

15:00 The value of frequent dosing of peroral L-dopa
Fabrizio Stocchi
Rome, Italy

15:40 New L-dopa preparations in development: IPX066, DM1922, XP21279, CVT301, Accordian pills
Peter LeWitt
West Bloomfield, MI, USA

16:20 L-dopa pump infusion: State-of-the-art
Per Odin
Bremerhaven, Germany

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees



Thursday, June 18, 2015

5208 Parallel Session , cont.

At the conclusion of this session, participants should be better able to:

- 1) Describe possibilities for frequent dosing of L-dopa
- 2) Describe new L-dopa formulations in development
- 3) Describe pump treatment options for L-dopa, their effects and risks

5209 Parallel Session

Parkinson's subtype: New horizons in pathology to clinic

15:00 – 17:00

Chairs: Charles Adler
Scottsdale, AZ, USA

Connie Marras
Toronto, ON, Canada

15:00 Motor subtypes and non-motor subtypes presenting with non-dopaminergic clinical features
Connie Marras
Toronto, ON, Canada

15:40 Non-motor subtypes (mesolimbic and mesocortical)
Paul Krack
Grenoble, France

16:20 Neuropathological concepts underpinning cognitive and other subtyping
Charles Adler
Scottsdale, AZ, USA

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

5209 Parallel Session , cont.

At the conclusion of this session, participants should be better able to:

- 1) Understand data and evidence on current basis of motor subtyping within Parkinson's and also cases that present dominantly with non dopaminergic features (cognitive impairment, pain, apathy and aspects of sleep) supporting distinct, subtypes within Parkinson's disease and overlap with motor subtypes
- 2) Understanding the rationale and emerging evidence base of specific non-motor subtypes within Parkinson's disease focusing on subcortical and mesolimbic subtypes supported by clinical, imaging and pharmacological data
- 3) Understand the role of non-dopaminergic neuronal dysfunction in early Parkinson's disease and the variability of neuropathology based on onset pattern of Parkinson's disease

5310 Teaching Course

Exercise in Parkinson's disease: Is it worth the sweat?

15:00 – 17:00

Chairs: Marten Munneke
Nijmegen, Netherlands
Ergun Uc
Iowa City, IA, USA

15:00 Biological effects of exercise in Parkinson's disease: Evidence from animal and human studies
Giselle Petzinger
Los Angeles, CA, USA

15:40 Evidenced-based review of exercise in Parkinson's disease
Ergun Uc
Iowa City, IA, USA

16:20 Practical implementation of exercise programs in Parkinson's disease
Marten Munneke
Nijmegen, Netherlands

Recommended Audience: Basic scientists, Clinical academicians, Non-physician Health Professionals, Practitioners, Students/Residents/Trainees

5310 Teaching Course , cont.

At the conclusion of this session, participants should be better able to:

- 1) Explain how animal models suggest mechanisms for effects of exercise in Parkinson's disease
- 2) List the current evidence supporting a role for exercise in Parkinson's disease
- 3) Explain possible mechanisms underlying the effect of exercise in Parkinson's disease

5311 Teaching Course

Update on pediatric movement disorders

15:00 – 17:00

Chairs: Hyder Jinnah
Atlanta, GA, USA
Nardo Nardocci
Milan, Italy

15:00 Isolated and combined dystonia syndromes in children
Nardo Nardocci
Milan, Italy

15:40 Paroxysmal dyskinesias
Roberto Erro
Naples, Italy

16:20 Alternating hemiplegia of childhood and rapid onset dystonia-parkinsonism
Allison Brashear
Winston-Salem, NC, USA

Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

At the conclusion of this session, participants should be better able to:

- 1) Review the most recent advances on the diagnosis and treatment of childhood onset dystonias
- 2) Understand the neurogenetics of paroxysmal dyskinesia, in particular phenotypic pleiotropy of PRRT2 and GLUT1 mutations, and their implications for patient management
- 3) Understand the spectrum of clinical manifestations of ATP1A3 mutations, which includes episodic to progressive movement disorders

Faculty Listing

Adler, Charles <i>Scottsdale, AZ, USA</i> 5103, 5209	Berg, Daniela <i>Tübingen, Germany</i> 4310	Calabresi, Paolo <i>Rome, Italy</i> 4206	Dawson, Ted <i>Baltimore, MD, USA</i> 3101
Aggarwal, Annu <i>Mumbai, India</i> 2411	Bernick, Charles <i>Las Vegas, NV, USA</i> 2203	Cardoso, Francisco <i>Belo Horizonte, Brazil</i> 5207	De Koning-Tijssen, Marina <i>Groningen, Netherlands</i> 3102
Alafuzoff, Irina <i>Uppsala, Sweden</i> 4411	Bezard, Erwan <i>Bordeaux, France</i> 4206	Carter, Julie <i>Portland, OR, USA</i> 4413	Deuschl, Günther <i>Kiel, Germany</i> 2101
Alcalay, Roy <i>New York, NY, USA</i> 3208	Bhatia, Kailash <i>London, United Kingdom</i> 3514	Castrioto, Anna <i>Grenoble, France</i> 4412	Duda, John <i>Philadelphia, PA, USA</i> 2207
Anderson, Tim <i>Christchurch, New Zealand</i> 4518	Bloem, Bastiaan <i>Nijmegen, Netherlands</i> 2208, 3517	Chaudhuri, K. Ray <i>London, United Kingdom</i> 2309	Elble, Rodger <i>Springfield, IL, USA</i> 2208
Antonini, Angelo <i>Venice, Italy</i> 5102	Bordelon, Yvette <i>Los Angeles, CA, USA</i> 3309	Chen, Robert <i>Toronto, ON, Canada</i> 1104	Elias, Jeff <i>Charlottesville, VA, USA</i> 5101
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Education Information

To better fulfill its global mission of advancing the neurological sciences as they relate to the field of Movement Disorders, MDS is continually expanding its educational portfolio. This growing portfolio offers increasing variety of high caliber continuing medical education and continuing professional development opportunities in movement disorders. For more information about the opportunities listed in this section, please visit www.movementdisorders.org/MDS/Education.htm or e-mail education@movementdisorders.org.

OUTREACH EDUCATION PROGRAMS

Developing World Education Program

This program is intended to provide flexible educational support opportunities through the MDS regional sections: the Asian and Oceanian Section (MDS-AOS), the European Section (MDS-ES) and the Pan American Section (MDS-PAS). The Education Committee of the corresponding regional section reviews applications received from their region.

Ambassador Program

This program is intended to provide excellent faculty in the field of Movement Disorders to existing conferences around the world. The Education Committee of the corresponding regional section reviews applications received from their region.

Visiting Professor Program

This program is intended to provide an excellent educational opportunity for local institutions and hospitals to focus on movement disorder education in regions of the world not adequately served by resources within that region. The Education Committee of the corresponding regional section reviews applications received from their region.

Parkinson and Movement Disorders Curriculum

The Parkinson and Movement Disorders Curriculum provides an overview of movement disorders and a clinical approach to the evaluation and management of common movement disorders. This curriculum is specially developed for trainees, internists, general neurologists and other clinicians interested in acquiring a basic understanding of movement disorders.

ONLINE CME ACTIVITIES

Journal CME

Visit the Educational Resources page on the MDS website to view a list of *Movement Disorders* journal articles available for CME credit. MDS is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide certified continuing medical education for physicians. MDS designates these educational activities for a maximum of 1.0 *AMA PRA Category 1 Credit™* each. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Coffee Break CME

The first MDS-designed online CME program specially intended for the busy clinician—Coffee Break CME—was launched in January 2012. This program was designed to provide continuing education critical to providing the best care possible. Scientific content is presented in a modular format, where each module is focused on a single topic which can be completed in a short period of time, providing the clinician with updated information relevant to their practice. Both standard approaches and new advances are highlighted.

Each module is broken into sub-topics which are discussed in a short article and demonstrated in 1-5 case study videos. The scope of this program includes modules on: parkinsonism, tremor, dystonia, chorea, and other topics as identified. After users have registered for a module, they are able to log in to the site as many times as needed to view all the material. At the beginning and completion of each module, participants are asked content-related questions to gauge their learning.

MDS is accredited by the ACCME to certify 2.0 *AMA PRA Category 1 Credits™* for each module. Physicians should only claim credit commensurate with the extent of their participation in the activity.



Education Information

OTHER ONLINE EDUCATION RESOURCES

MDS provides a variety of online educational activities in addition to streaming video and CME programming. The following educational tools are available on the MDS website.

Slide Sets

This Members Only service familiarizes learners with the differential diagnosis and clinical features that define various common involuntary movements as well as the course of treatment and complications of movement disorders. All slide sets are available in English and in Spanish.

Current Slide Sets

- Ataxia (PPT)
- *Jennifer Goldman*
- Chorea (PPT)
- *Kathleen Shannon*
- The Diagnosis and Management of Dystonia (PPT)
- *Steven Frucht*
- Myoclonus: Diagnosis and Treatment (PPT)
- *Steven Frucht*
- Parkinsonism (PPT)
- *Kathleen Shannon*
- Restless Legs Syndrome (PPT)
- *Charles Adler*
- Tics and Tourette Syndrome (PPT)
- *Jennifer Goldman*

MDS Video Library

This Members Only library consists of video supplements from the *Movement Disorders* journal since 1986. You may search the Video Library by keyword, author, volume and issue or a combination of these fields.

LIVE COURSES

Deep Brain Stimulation for Movement Disorders **March 5-6, 2015 – Barcelona, Spain**

Course Directors: Alberto Albanese, Francesc Valldeoriola

More than 100,000 patients worldwide have been treated by Deep Brain Stimulation (DBS) for a drug refractory movement disorder. General neurologists will be increasingly confronted with the management of these patients, who suffer from chronic neurological conditions, such as Parkinson's disease, and require lifelong care.

This course will instruct general neurologists on how to identify the cause of clinical problems in DBS-treated patients which result from either the underlying disease, inappropriate adjustment of medication and stimulation, or stimulation itself. The presentations will also discuss the selection criteria for surgery, which is necessary to consult appropriate candidates and to refer these patients to surgical centers.

Target Audience: This course is intended for movement disorder specialists, general neurologists and trainees who want to become more involved in the selection or postoperative management of patients with movement disorders (tremor, dystonia, Parkinson's disease, etc.) treated by Deep Brain Stimulation surgery.

Deep Brain Stimulation for Movement Disorders **March 13-14, 2015 – Seoul, South Korea**

Course Director: Beom Jeon

This course will instruct general neurologists on how to identify the cause of clinical problems in DBS-treated patients which result from either the underlying disease, inappropriate adjustment of medication and stimulation, or stimulation itself. The presentations will also discuss the selection criteria for surgery, which is necessary to consult appropriate candidates and to refer these patients to surgical centers.

Target Audience: This course is intended for movement disorder specialists, general neurologists, general physicians, physicians in training and students.

Education Information

Evidence Based Medicine Update on Treatments for Parkinson's Disease

March 13, 2015 – Salvador da Bahia, Brazil

Course Directors: Francisco Cardoso, Susan Fox

The Evidence Based Medicine Update on Treatments for Parkinson's Disease will outline the concept of EBM and then present the findings from the recent reviews. This will be followed by case scenarios thereby putting the theory into practice.

Target Audience: This course is intended for movement disorder specialists, general neurologists, geriatricians, neurosurgeons, Non-physician Health professionals and neurologists in training.

The China Continuing Education Classes for Parkinson and Movement Disorders

April 11-12, 2015 – Hangzhou, China

Course Director: Baorong Zhang

The field of Parkinson's disease and Movement Disorders is underserved in China with a population of 1.3 billion. The understanding of Parkinson's disease and movement disorders is rapidly evolving. Numerous therapeutic medical and surgical treatment options are available in the market. The China Continuing education Classes for Parkinson and Movement Disorders is intended to provide up to date discussion on Parkinson's disease and movement disorders and all available advanced therapies in the field. This will be the first educational course of this magnitude on Parkinson's disease and movement disorders in China.

Target Audience: This course will be directed toward neurologists in China.

Fostering New Directions in Parkinson's Research

May 4-9, 2015 – White Plains, NY, USA

Course Directors: Etienne Hirsch, Serge Przedborski, Raj Ratan

This course is aimed to confront the next generation of basic scientists with clinical realities and young clinicians with the latest advances of preclinical disciplines in movement disorders. The aim is to create a common language and generate ideas that will allow development of new translational projects developed by the next generation of researchers in movement disorders.

This course is a five day program, which will include lectures on topics related to research in the field of Movement Disorders as well as hands on group work, during which participants will draft a grant application related to Movement Disorders.

Throughout the course there are evening discussions aimed at teaching the students to be successful in their research endeavors and grant writing. Day one focuses on how to write a grant, day two examines ethics and misconduct and how to use statistics, and day three introduces how to write, review and submit a paper and how to make a good oral presentation. On day 4 of the program the groups will submit their grant applications and begin presenting their applications using PowerPoint. The work groups will apply what they are learning as the course progresses. As an incentive, first, second, and third place prizes will be awarded to the top three groups.

Target Audience: The course is intended for the following participants:

- Post doctoral students in neuroscience or PhD students with at least one paper published or accepted as first author.
- Young neurologists within 8 years of completion of their thesis (MD or PhD) who are interested in neurosciences with at least one paper published or accepted as first author.



International Congress Multimedia

STREAMING CONTENT AVAILABLE FOR PRE-ORDER

MDS is pleased to offer you the opportunity to pre-order streaming content of the 2015 International Congress Teaching Courses, Themed Sessions and the MDS Video Challenge. Streaming content can be pre-ordered during the registration process and includes slides, audio and video. Accompanying syllabi will be available for download.

2015 International Congress Teaching Courses Streaming Content

Seven Teaching Courses are available:

- *Cognitive and psychiatric disturbances in atypical parkinsonian disorders
- Detecting Prodromal Parkinson's disease
- Diagnosis and treatment of atypical parkinsonism
- Exercise in Parkinson's disease: Is it worth the sweat?
- Management misadventures in movement disorders
- Tips and tricks in movement disorders examination
- Update on pediatric movement disorders

**Denotes Teaching Course is also a Themed Session, available with the Themed Session Content as well.*

Teaching Course Streaming Content	Pre-Order Price (USD)	Full Price (USD)
MDS Members	\$ 50.00	\$100.00
Non-Members	\$100.00	\$200.00

2015 International Congress Themed Sessions Streaming Content

The Special Meeting Theme of the 2015 MDS International Congress is *Multi-system proteinopathies: From paradigm shift to therapy*. Six Themed Sessions are available:

- Chronic traumatic encephalopathy and movement disorders
- *Cognitive and psychiatric disturbances in atypical parkinsonian disorders
- Designing a clinical trial for atypical parkinsonian disorders
- Multiple phenotypic presentations of atypical parkinsonian disorders due to proteinopathies
- Novel biomarkers to differentiate neurodegenerative parkinsonian disorders
- Proteinopathies: From paradigm shift to diagnosis of parkinsonian disorders

**Denotes Themed Session is also a Teaching Course, available with the Teaching Course Content as well.*

Congress Themed Session Streaming Content	Pre-Order Price (USD)	Full Price (USD)
MDS Members	\$ 62.00	\$125.00
Non-Members	\$125.00	\$250.00

2015 MDS Video Challenge Streaming Content

MDS is pleased to offer you the opportunity to view the MDS Video Challenge* as streaming content from the 19th International Congress. Streaming content includes slides, audio and video.

The MDS Video Challenge comprises unique movement disorders cases presented by representatives from Movement Disorder Centers around the world and discussed by two teams of senior experts in the field. The goal of the MDS Video Challenge is to have attendees learn from a series of unusual, intriguing cases and to see how senior experts approach and handle them. **MDS Video Challenge Streaming Content will be available for \$30 USD.**

**Formerly known as MDS Video Games*

Multimedia streaming will be available in September 2015. An e-mail with an access code and directions to stream the content will be sent to all who pre-ordered the content.

STREAMING CONTENT AVAILABLE FOR ONLINE ORDER

Also available for purchase:

- 18th International Teaching Course Streaming Content
- 18th International Themed Session Streaming Content
- 18th International MDS Video Challenge Streaming Content
- 17th International Congress Teaching Course DVD
- 17th International Congress Themed Session DVD
- 17th International Congress MDS Video Challenge DVD
- 16th International Congress Teaching Course Streaming Content
- 16th International Congress Themed Course Streaming Content
- 16th International Congress MDS Video Games DVD

For prices and ordering information please visit:

www.movementdisorders.org/MDS/Resources/Audio-Visuals-for-Sale.htm

Acknowledgements

The International Congress Oversight Committee of the 19th International Congress of Parkinson's Disease and Movement Disorders wishes to acknowledge and thank the following companies for their support:

PLATINUM LEVEL

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SILVER LEVEL



Above companies are confirmed as of January 20, 2015.



Membership Information

MEMBERSHIP BENEFITS

Highlights

- Annual Subscription to the Society's **Journals**:
Movement Disorders (print and online)
Movement Disorders—Clinical Practice (online only)
- Quarterly **Newsletter** entitled, *Moving Along*
- Members Only Access to:
Society Membership Directory (online and mobile)
CME Activities and Streaming Content Webcasts, and an **in-depth Video Library**
- **Reduced Registration** rates for Continuing education
- **Voting Rights** in Society leadership elections

Details

- **JOURNALS:** *Movement Disorders* is a peer-reviewed journal covering all topics of the field, both in clinical and basic science. Subscriptions include 14 regular issues of the journal each year, with supplements on special topics. *Movement Disorders—Clinical Practice* is the sister publication to *Movement Disorders* and was unveiled in 2014. Exclusively accessible online, the journal seeks to publish peer-reviewed articles that are focused on clinical practice and educational issues relevant to movement disorders neurology.
- **NEWSLETTER:** *Moving Along* is a quarterly newsletter highlighting recent and ongoing Society activities. The newsletter offers a forum for members to exchange ideas and read about noteworthy and upcoming figures in the field of Movement Disorders.
- **DIRECTORY:** the MDS Directory, both online and mobile, lists e-mail and postal addresses, as well as telephone and fax numbers for all current colleagues in the field who are Society members.
- **REDUCED REGISTRATION:** A reduction in fees charged for participation in the Society's educational programs. Among these are the annual International Congress of Parkinson's Disease and Movement Disorders, and various clinical and scientific programs held by MDS throughout the year.
- **CME ACTIVITIES, STREAMING CONTENT, TRAINING VIDEOS, and VIDEO LIBRARY:** A unique selection of educational opportunities, including live and online CME/CPD activities and reference material on topics in Movement Disorders.

Free 12-Month Trial Membership! MDS Associate Membership Program

Non-Members attending the Congress will now have the opportunity to try out membership with the International Parkinson and Movement Disorder Society (MDS) absolutely free for one year's time! Eligible delegates will receive one year of membership including immediate access to member benefits upon acceptance to the Society, for no charge at all.*Eligible delegates will be contacted by e-mail one month following the International Congress. The International Secretariat will provide special instructions via e-mail to apply online for Associate Membership with the Society. Interested individuals are encouraged to apply online within 30 days of contact.

**Participants paying the Non-Member registration fee will be eligible to participate in the Associate member program. This option is not available to those registering as a Junior or Health Professional (non-physician) participant or anyone who registered as part of a group. Only those who have not previously been members of MDS will be eligible to apply. This opportunity is not open to Industry professionals at this time. Associate members will not receive the print journal and do not have voting rights.*

Join us in 2015! We expect this to be an exciting year for MDS and we look forward to bringing you news of these and other new initiatives through the Society's journals, newsletter, and the MDS website.

For further information, please contact:

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Website: www.movementdisorders.org



Housing

The headquarter hotel and venue for the 19th International Congress is the Manchester Grand Hyatt San Diego. Accommodations are limited, so please reserve your room as soon as possible.

Manchester Grand Hyatt San Diego
One Market Place
San Diego, CA 92101, US
Tel: +1 619 232 1234
Fax: +1 619 233 6464
manchestergand.hyatt.com

INDIVIDUAL RESERVATIONS

For individual reservations, please complete the request form found here: aws.passkey.com/event/11446430/owner/414/home

GROUP RESERVATIONS

For group blocks of 10 rooms or more, please send an e-mail with your details to: erika.winterland@hyatt.com.

**Housing booking deadline at the Manchester Grand Hyatt:
Friday, May 22, 2015.**

VERCISE™
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Now for Parkinson's Disease, Dystonia & Tremor

The first and only DBS system with current steering* designed for precise neural targeting to customize therapy for your patients.

25 Year Battery Life*

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†† Boston Scientific Physician Manual. The Vercise™ Deep Brain Stimulation (DBS) System is indicated for use in unilateral or bilateral stimulation of the subthalamic nucleus (STN) or internal globus pallidus (GPi) for treatment of levodopa-responsive Parkinson's disease which is not adequately controlled with medication and also for treatment of intractable primary and secondary dystonia, for persons 7 years of age and older. Thalamic stimulation using the Boston Scientific Vercise™ DBS System is indicated for the suppression of tremor not adequately controlled by medications in patients diagnosed with Essential Tremor or Parkinson's disease. All cited trademarks are the property of their respective owners.
CAUTION: The law restricts these devices to sale by or on the order of a physician. Indications, contraindications, warnings and instructions for use can be found in the product labeling supplied with each device. Information for the use only in countries with applicable health authority product registrations.
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Map of Downtown San Diego



Downtown/Balboa Park/Hillcrest/North Park Accommodations

Map Location	Hotel	Guest Rooms
1	America's Best Value Inn – Convention Center	42
2	The Bristol San Diego	102
3	Courtyard by Marriott San Diego Downtown	245
4	Embassy Suites Hotel San Diego Bay – Downtown	337
5	Hard Rock Hotel San Diego	420
6	Hilton San Diego Convention Center	1,190
7	Hilton San Diego Gaslamp Quarter	282
8	Holiday Inn Express – Downtown San Diego	136
9	Holiday Inn on the Bay	600
10	Horton Grand Hotel	132
11	Hotel Solamar San Diego	235
12	Hostelling International	33

Map Location	Hotel	Guest Rooms
13	Ivy Hotel	142
14	Manchester Grand Hyatt San Diego	1,625
15	Omni San Diego Hotel	511
16	Radisson Hotel Harbor View	333
17	San Diego Marriott Gaslamp Quarter	306
18	San Diego Marriott Hotel & Marina	1,362
19	Sheraton Suites San Diego at Symphony Hall	264
20	The Sofia Hotel	212
21	The US Grant	270
22	The Westin Horton Plaza San Diego	450
23	The Westin San Diego	436
24	W San Diego	258

2015 Important Dates

April 1, 2015

Late-Breaking Abstracts Submission Deadline

April 17, 2015

Early Registration Deadline

May 15, 2015

Final Pre-Registration Deadline

June 14-18, 2015

19th International Congress of Parkinson's Disease and Movement Disorders

SAVE THE DATE

20th International Congress of Parkinson's Disease and Movement Disorders

Berlin, Germany

June 19-23, 2016

SAVE THE DATE

5th Asian and Oceanian Parkinson's Disease and Movement Disorders Congress

Manilla, Philippines

March 11-13, 2016